

Abstract of the Invention

An improved ultrasound probe includes a support member, a signal cable having a plurality of electrically conductive members and an ultrasound transducer array. Distal end portions of each of the conductive members may be separately embodied 5 within and extend through the support member to a first side thereof. In turn, the ultrasound transducer array may be supportably mounted to the first side of the support member, wherein transducer elements comprising the ultrasound transducer array are electrically interconnected to different ones of the electrically conductive members. The support member preferably includes an acoustic dampening material. In one 10 embodiment, the ultrasound transducer array may be defined by a piezoelectric layer having electrically conductive signal and ground layers on opposing sides thereof.